

## **CLAIMS**

We claim:

1. A computerized system for managing the communication a laboratory result to a person placing a laboratory order, comprising:

a laboratory information system data store storing clinical laboratory results for clinical laboratory orders;

an electronic medical record data store storing clinical event information;

a results posting module communicating with the laboratory information system data store and electronic medical record data store, the results posting module configured to publish clinical laboratory results from the laboratory information system data store to the electronic medical record data store; and

a callback module for selectively identifying a clinical laboratory result requiring a communication to the person placing the laboratory order for the selected clinical laboratory result.

2. A system according to claim 1, wherein the results posting module publishes the clinical laboratory results through a data exchange interface.

3. A system according to claim 1, wherein the callback module selectively identifies the clinical laboratory result requiring communication based on information about the clinical laboratory order.

4. A system according to claim 1, wherein the callback module selectively identifies the clinical laboratory result requiring communication based a comparison of the laboratory result and a clinically range relevant to the laboratory result.

5. A system according to claim 1, wherein the callback module selectively identifies the clinical laboratory result requiring communication based on information associated with the person placing the laboratory orders resulting in the clinical laboratory result.

6. A system according to claim 1, wherein the results posting module publishes the clinical laboratory results directly from the laboratory information system data store to the electronic medical records data store.

7. A method in a computer environment of managing the communication a laboratory result to a person placing a laboratory order, comprising:

accessing a laboratory information system data store containing a plurality of laboratory results;

posting the laboratory results from the laboratory information system data store to an electronic medical records data store; and

selectively identifying a clinical laboratory result requiring a communication to the person placing the laboratory order.

8. A method according to claim 7, wherein the laboratory results are posted through a data exchange interface.

9. A method according to claim 7, wherein the step of selectively identifying a clinical laboratory result comprises performing an analysis of the clinical laboratory order for the clinical laboratory results.

10. A method according to claim 7, wherein the step of selectively identifying a clinical laboratory result comprises comparing the laboratory result to a clinically range relevant to the laboratory result.

11. A method in a computing environment for communicating a laboratory result to a person placing a laboratory order, comprising:

accessing a data store containing a plurality of clinical laboratory results;

selectively identifying a clinical laboratory result requiring communication to the person placing the laboratory order for the selected clinical laboratory result;

identifying a first preferred notification method for the selected laboratory result; and

automatically generating a communication of the selected laboratory result by the first preferred method.

12. A method according to claim 11, further comprising the step of determining if the communication of the laboratory result is successfully completed, and, if not, identifying a second preferred method for the selected laboratory result and automatically generating a communication of the laboratory result by the second preferred method.

13. A method according to claim 11, wherein the first preferred method is identified based a schedule containing a location for the person placing the laboratory order.

14. A method according to claim 11, wherein the first preferred method is based on the availability of a communication device associated with the person placing the laboratory order.

15. A method according to claim 11, wherein the first preferred notification method is a telephone call to a particular phone number and wherein the first preferred notification method is identified from a plurality of notification methods associated with different phone numbers.

16. A method according to claim 11, wherein the laboratory result is communicated by the first preferred notification method through a delegate of the person placing the laboratory order.

17. A method according to claim 11, wherein the first preferred notification method is a telephone call to a particular phone number and wherein the first preferred notification method is identified from a plurality of notification methods associated with different phone numbers.

18. A method in a computing environment for communicating a laboratory result to a person placing a laboratory order, comprising:

accessing a data store containing a plurality of clinical laboratory results;

selectively identifying a clinical laboratory result requiring communication to the person placing the laboratory order for the selected clinical laboratory result;

identifying a first preferred notification method for the selected laboratory result from a plurality of notification methods;

identifying a number of conditions for the preferred method; and

if the conditions are satisfied, automatically generating a communication of the laboratory result by the first preferred method.

19. A method according to claim 18, further comprising the step of determining if the communication of the laboratory result is successfully completed, and, if not, identifying a second preferred method from the plurality of notification methods and automatically generating a communication of the laboratory result by the second preferred method.

20. A method according to claim 18, wherein the conditions relate to the schedule of the person placing the laboratory order.

21. A method according to claim 18, wherein the laboratory result is communicated by the first preferred notification method through a delegate to the person placing the laboratory order.